

## ABSTRACT

A hub dynamo is compacted into a small diameter size while ensuring the generation of a high voltage of electric power. A coil ~~chamber~~ CR-chamber, formed between a pair of main iron ~~cores~~ 10-cores, is partitioned in the axial direction by ~~three~~ at least one sub iron ~~cores~~ 11-core to form a ~~first, second, third and fourth~~ plurality of coil chambers (~~CR-1, 2, 3 and 4~~); ~~on these chambers. On the coil chambers (CR-1, 2, 3 and 4), one~~ a coil wire ~~13-wire~~ is wound ~~in order in a state such~~ that the winding direction changes ~~alternately; and magnetic~~ alternately between adjacent coil chambers. Magnetic flux ~~collectors~~ 15-collectors are connected ~~with~~ to the outer circumference of the main/sub iron ~~cores~~ 10 and 11-cores and include a plurality of first magnetic flux collector ~~15-collectors~~ connected with the ~~first, third and fifth~~ odd numbered iron cores (10-1), (11-3) and (10-5) and a (counting from either end) and a plurality of second pole piece ~~15-magnetic flux collectors~~ connected with the ~~second and fourth~~ even numbered iron ~~cores~~ (11-2), (11-4), which are disposed ~~alternately~~ cores.